

SEQUENCE LISTING

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 Wolfgang, Curt
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 The Government of the United States of America
 as represented by the Secretary of the
 Department of Health and Human Services

<120> T-Cell Receptor Gamma Alternate Reading Frame Protein,
 (TARP) and Uses Thereof

<130> 015280-391200PC

<140> PCT/US00/19039
<141> 2000-07-12

<150> US 60/157,471
<151> 1999-10-01

<150> US 60/143,560
<151> 1999-07-13

<160> 33

<170> PatentIn Ver. 2.1

<210> 1
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 1
aacttggaaag ggrgaacraa gtcagtc

27

<210> 2
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 2
agtactaaaaa cgctgtcaaa aacagcc

27

<210> 3
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 3
ttggacttgg attatcaaaa gtgg 24

<210> 4
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 4
ttgggcagtt ggaacaacct gaaa 24

<210> 5
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 5
gataaacaac ttgatgcaga tggccc 28

<210> 6
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 6
ggaaacatc tgcataagt tggatc 28

<210> 7
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 7
ctggagctt gttcagcaa ttgaagg 27

<210> 8
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 8
ctcaagaaga caaaggatag ttccagc 27

<210> 9
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 9
ttatgatttc tctccattgc agcag 25

<210> 10
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 10
gaagttacta tgagcttagt ccctt 25

<210> 11
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 11
aagctttgtt ccgggaccaa atac 24

<210> 12
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 12
tacctgtgac aacaagtgtt gttc 24

<210> 13
 <211> 1027
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (74)..(247)
 <223> Coding region for PS-TCR gamma 1 polypeptide
 (TARP)

<220>
 <221> CDS
 <222> (247)..(579)
 <223> Coding region for PS-TCR gamma 2 polypeptide (deduced amino
 acid sequence not displayed along with DNA sequence, due to
 overlapping CDS's)

<400> 13
 gggcaagagt tggcaaaaa aatcaaggtt tttggtcccg gaacaaagct tattcattaca 60

gataaacaac	ttg	atg	cag	atg	ttt	ccc	cca	agc	cca	cta	ttt	ttc	ttc	109
	Met	Gln	Met	Phe	Pro	Pro	Ser	Pro	Leu	Phe	Phe	Phe		
	1				5					10				

ctt caa ttg ctg aaa caa agc tcc aga agg ctg gaa cat acc ttt gtc 157
 Leu Gln Leu Leu Lys Gln Ser Ser Arg Arg Leu Glu His Thr Phe Val
 15 20 25

ttc ttg aga aat ttt tcc ctg atg tta aga tac att ggg aag aaa 205
 Phe Leu Arg Asn Phe Ser Leu Met Leu Leu Arg Tyr Ile Gly Lys Lys
 30 35 40

aga aga gca aca cga ttc tgg gat ccc agg agg gga aca cca 247
 Arg Arg Ala Thr Arg Phe Trp Asp Pro Arg Arg Gly Thr Pro
 45 50 55

tgaagactaa cgacacatac atgaaattta gctggtaac ggtgccagaa aagtcaactgg 307
 acaaagaaca cagatgtatc gtcagacatg agaataataa aaacggagtt gatcaagaaa 367
 ttatcttcc tccaataaag acggatgtca tcacaatggc tcccaaagac aattgttcaa 427
 aagatgcaaa tgatacacta ctgctgcagc tcacaaacac ctctgcatac tacatgtacc 487
 tcctcctgct cctcaagagt gtggctatt ttgccatcat cacctgctgt ctgcttagaa 547
 gaacggcttt ctgctgcaat ggagagaaaatacataacagac ggtggcacaa ggaggccatc 607
 ttttcctcat cggttattgt ccctagaagc gtcttctgag gatctagttt ggctttcttt 667
 ctgggtttgg gccatttcag ttctcatgtg tgtactattc tatttattt gatataacgg 727
 tttcaaacca gtgggcacac agagaacctc actctgtat aacaatgagg aatagccacg 787
 gcatctcca gcaccaatct ctccatgtt tccacagctc ctccagccaa cccaaatagc 847
 gcctgctata gtgttagacat cctgcggctt ctagccttgtt ccctctctta gtgttcttt 907
 atcagataac tgccttggaaag cctttcattt tacacgcctt gaagcagtct tctttgctag 967

ttgaattatg tggtgtgtt ttccgtaata agcaaaataa attaaaaaaa atgaaaagtt 1027

<210> 14
<211> 58
<212> PRT
<213> Homo sapiens

<400> 14
Met Gln Met Phe Pro Pro Ser Pro Leu Phe Phe Phe Leu Gln Leu Leu
1 5 10 15

Lys Gln Ser Ser Arg Arg Leu Glu His Thr Phe Val Phe Leu Arg Asn
20 25 30

Phe Ser Leu Met Leu Leu Arg Tyr Ile Gly Lys Lys Arg Arg Ala Thr
35 40 45

Arg Phe Trp Asp Pro Arg Arg Gly Thr Pro
50 55

<210> 15
<211> 111
<212> PRT
<213> Homo sapiens

<400> 15
Met Lys Thr Asn Asp Thr Tyr Met Lys Phe Ser Trp Leu Thr Val Pro
1 5 10 15

Glu Lys Ser Leu Asp Lys Glu His Arg Cys Ile Val Arg His Glu Asn
20 25 30

Asn Lys Asn Gly Val Asp Gln Glu Ile Ile Phe Pro Pro Ile Lys Thr
35 40 45

Asp Val Ile Thr Met Asp Pro Lys Asp Asn Cys Ser Lys Asp Ala Asn
50 55 60

Asp Thr Leu Leu Leu Gln Leu Thr Asn Thr Ser Ala Tyr Tyr Met Tyr
65 70 75 80

Leu Leu Leu Leu Lys Ser Val Val Tyr Phe Ala Ile Ile Thr Cys
85 90 95

Cys Leu Leu Arg Arg Thr Ala Phe Cys Cys Asn Gly Glu Lys Ser
100 105 110

<210> 16
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<223> Partial amino acid sequence of TARP (residues 42-57)

<400> 16
Gly Lys Lys Arg Arg Ala Thr Arg Phe Trp Asp Pro Arg Arg Gly Thr
1 5 10 15

<210> 17
<211> 16
<212> PRT
<213> Dictyostelium discoideum

<220>
<223> Partial amino acid sequence of Tup1 (dTup, residues 521-536)

<400> 17
Gly Ser Lys Asp Arg Ser Val Gln Phe Trp Asp Pro Arg Asn Gly Thr
1 5 10 15

<210> 18
<211> 16
<212> PRT
<213> Saccharomyces cerevisiae

<220>
<223> Partial amino acid sequence of Tup1 (yTup1, residues 626-660)

<400> 18
Gly Ser Lys Asp Arg Gly Val Leu Phe Trp Asp Lys Lys Ser Gly Asn
1 5 10 15

<210> 19
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 19
ttacagataa acaacttgat acagatgtt cccccaagcc c

<210> 20
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 20
gggcttgggg gaaacatctg tatcaagttg tttatctgt 39

<210> 21
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 21
gataaacaac ttgatgcaga tatttccccc aagccc 36

<210> 22
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 22
gggcttgggg gaaatatctg catcaagttg tttatc 36

<210> 23
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 23
gataaacaac ttgatacaga tatttccccc aagccc 36

<210> 24
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 24
gggcttgggg gaaatatctg tatcaagttg tttatc 36

<210> 25
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 25
cccaggaggg gaacaccata aagactaacg acacatac 38

<210> 26
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 26
gtatgtgtcg ttagtcttta tggtgttccc ctccctggg 38

<210> 27
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 27
gataaacaac ttgatgcaga tgttt 25

<210> 28
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 28
ttatgatttc tctccattgc agcag 25

<210> 29
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 29
aagctttgtt ccgggaccaa atac 24

<210> 30
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 30
atctggcacc acaccttcta caatgagctg cg 32

<210> 31
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 31
cttcataactc ctgcttgctg atccacatct gc 32

<210> 32
<211> 4
<212> PRT
<213> Homo sapiens

<220>
<223> Protein kinase phosphorylation site

<400> 32
Arg Arg Ala Thr
1

<210> 33
<211> 4
<212> PRT
<213> Homo sapiens

<220>
<223> Protein kinase phosphorylation site

<400> 33
Arg Arg Gly Thr
1